

Message Text

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DRAFTED BY NSF:WHWETMORE

APPROVED BY SCI/AE:JLBLOOM

SCI/SA:PHAMILY

USAEC:JVANDERRY

EB/ORF/FSE:SBOSWORTH

EUR/RPE:ALIEBOWITZ

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P 302001Z MAY 74

FM SECSTATE WASHDC

TO USMISSION OECD PARIS PRIORITY

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AMEMBASSY BONN PRIORITY

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E.O. 11652: N/A

TAGS: ENRG,TECH,OECD,EC,GE

SUBJECT: ECG AD HOC WORKING GROUP ON ENERGY R&D

1. US OECD REQUESTED TO PASS MESSAGE BELOW FROM W.H. WETMORE, NSF, TO GABRIEL DRILHON, DIRECTION DES AFFAIRES SCIENTIFIQUES, OCDE, 2 RUE ANDRE PASCAL, 75 PARIS 16, FRANCE. US EC PLEASE PASS INFO COPY TO K. BUSHBECK, FRG MISSION TO EC. BONN REQUESTED PASS INFO COPY TO DR. SCHMIDT-KUESTER.

2. THIS MESSAGE CONTAINS TWO PARTS: PART I, A U.S.

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RECOMMENDATION FOR A JOINT ECG COLLABORATIVE PROJECT

ON ENERGY MODELS; AND PART II, RECOMMENDATIONS REGARDING CHANGES IN THE TEXT, "ANALYTICAL STUDIES ON ENERGY SYSTEMS."

3. PART I: IT WAS TH UNDERSTANDING OF THE U.S. DELEGATES THAT THE EXPERT GROUP ON MAY 13TH AGREED THAT A COLLABORATIVE PROJECT ON DATA BASE AND SYSTEM MODELING WOULD MAKE SENSE AND SHOULD BE CONDUCTED. ALSO THE SPECIFICS OF THE PROJECTS SHOULD BE DEVELOPED BASED ON FURTHER SUBSTANTIVE DISCUSSIONS. THIS IS ESSENTIALLY THE IDENTICAL PROPOSAL (TASK I) SUBMITTED BY DR. J. J. VANDERRYN AT BRUSSELS ON APRIL 25, 1974 TO REPRESENTATIVES OF OECD, FRG, AND JAPAN. I STILL RECOMMEND NOW, AS THEN, ITS INCLUSION.

4. PART II: CONTAINS SPECIFIC RECOMMENDATIONS REGARDING THE PAPER ON "ANALYTICAL STUDIES ON ENERGY SYSTEMS."

I. THE JOINT PROJECT - DATA BASE/SYSTEM MODEL

A. OBJECTIVE:

TO DEVELOP MODELS WHICH PERMIT UNDERSTANDING OF INTERNATIONAL IMPLICATIONS OF NATIONAL ENERGY SUPPLY AND DEMAND AND TO PROVIDE A DATA BASE AGAINST WHICH DECISION MAKERS CAN MORE FULLY UNDERSTAND INTERNATIONAL ENERGY UTILIZATION TO IDENTIFY AND DEVELOP POLICY OPTIONS MUTUALLY BENEFICIAL TO THE NATIONS INVOLVED, AND TO AID IN THE DEVELOPMENT OF R&D PRIORITIES FOR THE MEMBER NATIONS.

B. SCOPE:

THE TASK WILL INVOLVE DEVELOPING INTERACTIVE ENERGY MODELS FOR TRADING NATIONS AND DEVELOPING A METHODOLOGY WHICH CAN BE USED BY ALL PARTICIPATING NATIONS IN THE PREPARATION OF CURRENT AND LONG-RANGE ENERGY SYSTEM MODELS. AS A MINIMUM, THE MODELS SHOULD EXTEND TO THE YEAR 2000 AND SHOULD PERMIT AN ORDERLY EVALUATION OF THE INTERACTION BETWEEN ENERGY, EMPLOYMENT, TRADE BALANCES, AND THE ENVIRONMENT.

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THE TASK WILL REQUIRE THE FOLLOWING DATA (CURRENT AND PROJECTED):

1. DIRECT ENERGY UTILIZATION HISTORY AND PROJECTIONS TO 2000 (DOMESTIC AND IMPORTED).
2. ENERGY ALLOCATIONS, BY DEMAND SECTOR
 - POWER GENERATION, TRANSMISSION, DISTRIBUTION

- INDUSTRIAL
 - RESIDENTIAL/COMMERCIAL
 - TRANSPORTATION
3. DIRECT ENERGY RESOURCES HISTORY AND PROJECTIONS TO 2000 (DOMESTIC AND EXPORTED) PRODUCED BY MAJOR CLASS
- NUCLEAR
 - OIL & GAS
 - COAL
 - HYDRO
 - NEW TECHNOLOGIES
4. INDIRECT ENERGY UTILIZATION THRU IMPORTS AND EXPORTS
5. DETERMINE ENERGY EFFICIENCIES OF VARIOUS PROCESSES IN MEETING ENERGY DEMANDS

A SENSITIVITY ANALYSIS WILL ALSO BE CONDUCTED TO EXAMINE THE VARIATION IN MAJOR PARAMETERS AND THE IMPACT OF THESE VARIATIONS ON POLICY OPTIONS. FOR EXAMPLE, THE VARIATION IN DEMAND PROJECTIONS FOR POWER GENERATIONS WILL BE EVALUATED TO DETERMINE THE IMPACT ON FUEL REQUIREMENTS, R & D REQUIRED, BALANCE OF TRADE, CAPITAL REQUIRED, ETC.

THE SCOPE SHOULD INCLUDE EXAMINATION OF DATA BASE AND DEVELOPMENT OF SYSTEM MODELS TO MEET THE NEEDS OF BOTH DEVELOPED AND DEVELOPING NATIONS.

C. PRODUCTS:

THE TASK SHALL PROVIDE ENERGY MODELS WHICH WILL PERMIT EACH NATION TO EXAMINE VARIOUS STRATEGIES FOR ENERGY ALLOCATION WITH SPECIFIC ATTENTION PAID TO THE IMPACT OF THE OTHER NATION'S STRATEGIES AMONG THE ISSUES TO BE TRADED OFF ARE THE IMPACT OF MODIFIED ENERGY RESOURCES UPON SOCIETAL ISSUES SUCH AS EMPLOYMENT, BALANCE OF TRADE, UNCLASSIFIED

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EDUCATION, PUBLIC HEALTH, ENVIRONMENTAL IMPACTS, PUBLIC SAFETY, ETC. IT WILL ALSO SHOW NATIONS THE EXTENT TO WHICH THEY ARE SELF-SUFFICIENT AND/OR IMPORT DEPENDENT, AND IDENTIFY PROJECTS THAT ARE MUTUALLY BENEFICIAL TO THE NATIONS INVOLVED. IT WILL ALSO DISCLOSE THE WEAKNESS IN THEIR CURRENT ENERGY UTILIZATION AND LAY THE FOUNDATION FOR R & D THAT UTILIZES ENERGY SELECTED RESOURCES IN A MORE EFFICIENT MANNER. THIS IS THE CRITICALLY IMPORTANT TASK THAT IS ESSENTIAL FOR ANY NATION TAKING THE FIRST STEP TOWARDS WISE NATIONAL AND INTERNATIONAL POLICIES ON ENERGY.

D. PROPOSED PROGRAM STRUCTURE:

THE PROGRAM WOULD BE STRUCTURED ALONG THE FOLLOWING

LINES:

1. THE U.S. WOULD COLLABORATE WITH OTHER NATIONS
(AT LEAST ONE DEVELOPED, ONE DEVELOPING) TO MANAGE
THE PROGRAM AND DEVELOP THE DATA BASE AND SYSTEM
MODEL.
2. THE NATIONS WOULD AGREE ON THE DATA REQUIRED.
3. THE DATA COLLECTION TASK WOULD BE DONE DIRECTLY
IN AND BY THE NATIONS INVOLVED.
4. THE U.S., WITH PARTICIPANTS DIRECTLY INVOLVED
WOULD COOPERATE IN DEVELOPING THE SYSTEM MODEL
FOR THE PARTICIPATING NATIONS AS WELL AS DEVELOP
A METHODOLOGY AVAILABLE TO ALL ECG NATIONS.
5. A REPORT WILL BE PREPARED SUMMARIZING THE RESULTS
AND THE METHODOLOGY.
6. THE TEAM WILL VISIT EACH NATION, UPON THEIR REQUEST,
TO ASSIST IN IMPLEMENTING THE METHODOLOGY.

II. RECOMMENDATION TO "ANALYTICAL STUDIES ON ENERGY SYSTEMS"

- A. PARA 1. - TOO MUCH EMPHASIS ON POWER GENERATION AND
NUCLEAR SYSTEMS. IT IS SUGGESTED THAT WORDING
BE MODIFIED TO INSURE THAT ENERGY SYSTEMS
EXAMINE ALSO INDUSTRIAL, TRANSPORTATION, AND
RESIDENTIAL/COMMERCIAL USE OF ENERGY.

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- B. PARA 2. - AFTER WORD "UTILIZATION," ADD "WITH THE PURPOSE
OF AIDING IN DEVELOPING R & D PRIORITIES AND
STRATEGIES."
- C. PARA 8. - AFTER WORD "OPERATE AND DEVELOP", ADD "AS WELL
AS A DEFINITION OF REGULATORY AND POLICY CHANGES
THAT MAY BE NECESSARY TO INSURE NECESSARY
IMPLEMENTATIONS."
- D. PARA 11,- BELIEVE THAT THESE COULD BE OMITTED SINCE THE
12 NEED FOR ANALYSIS HAS PREVIOUSLY BEEN ESTABLISHED.
- E. PARA 17.- PREFER TO LEAVE THIS PARAGRAPH OUT. I WOULD
RATHER FOCUS ON THE ACTIVITIES TO BE CONDUCTED
AND WOULD PREFER THAT WE SELECT LATER THE
MECHANISM AND THE ORGANIZATION TO COORDINATE
THE SELECTED AREAS OF COLLABORATION.

5. I REGRET DELAY IN FURNISHING THESE COMMENTS AND HOPE
THAT THEY CAN BE TAKEN INTO ACCOUNT IN FINAL RECOMMENDA-
TIONS SUBMITTED BY WORKING GROUP TO ECG. BROWN

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